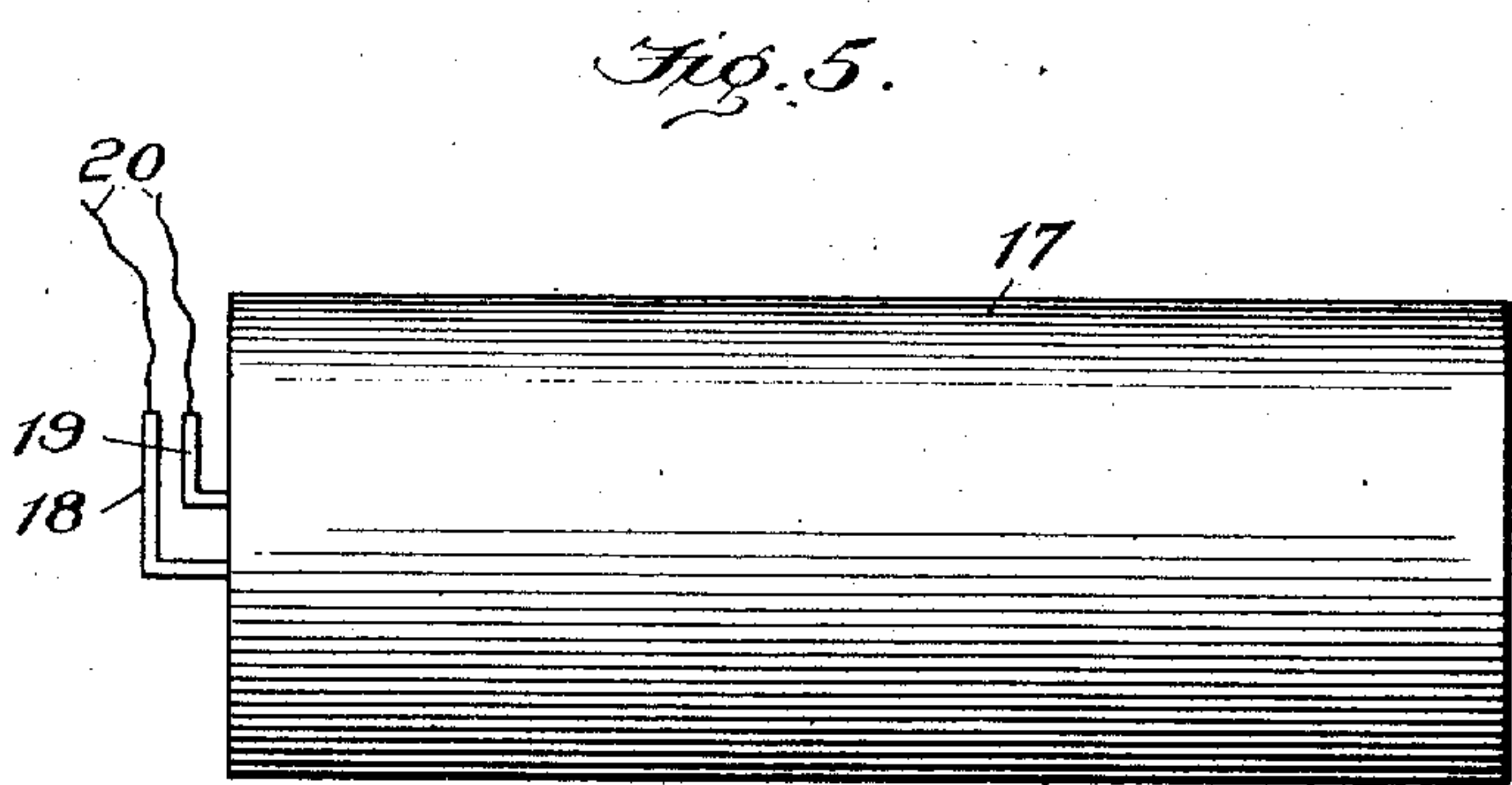
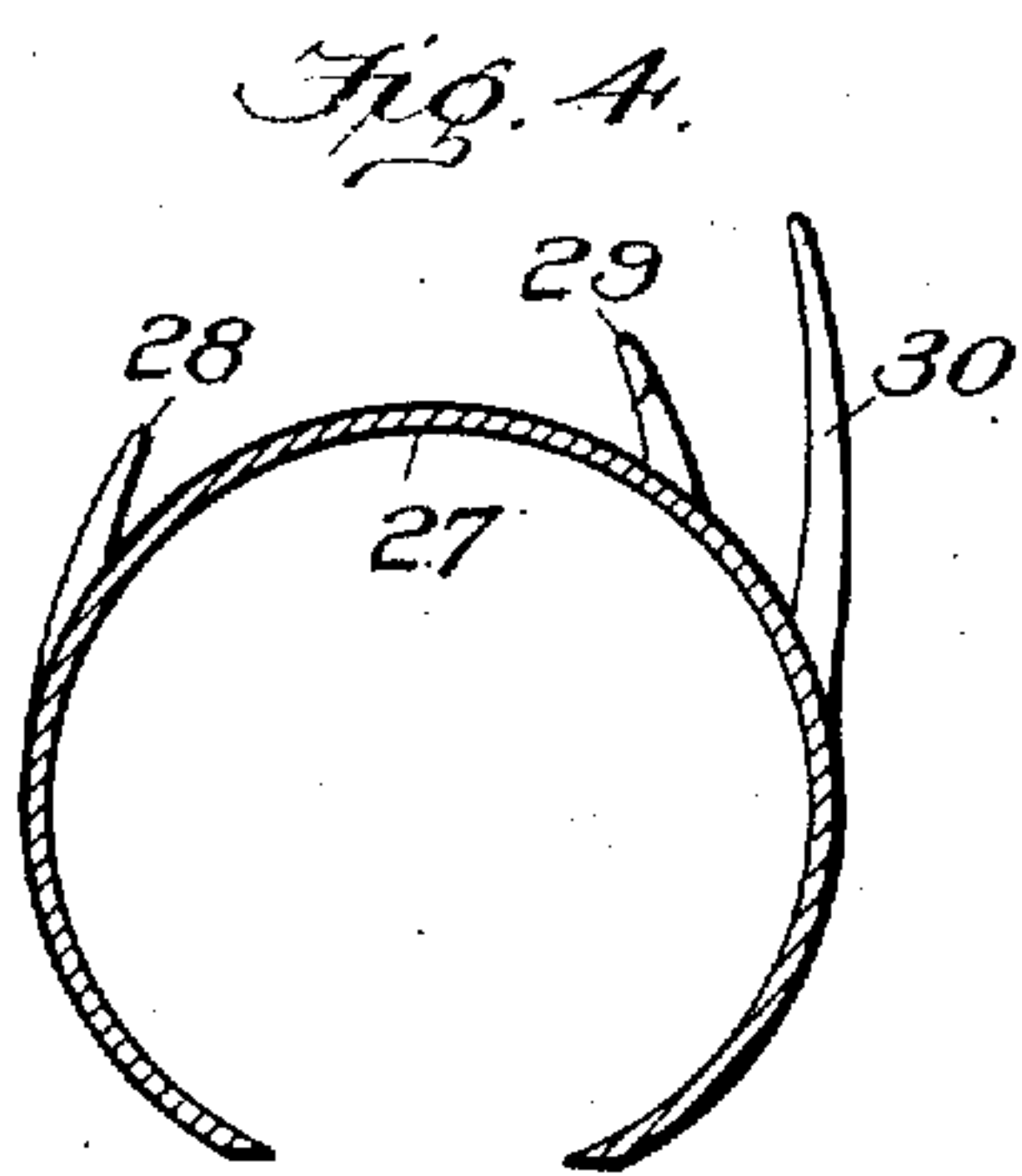
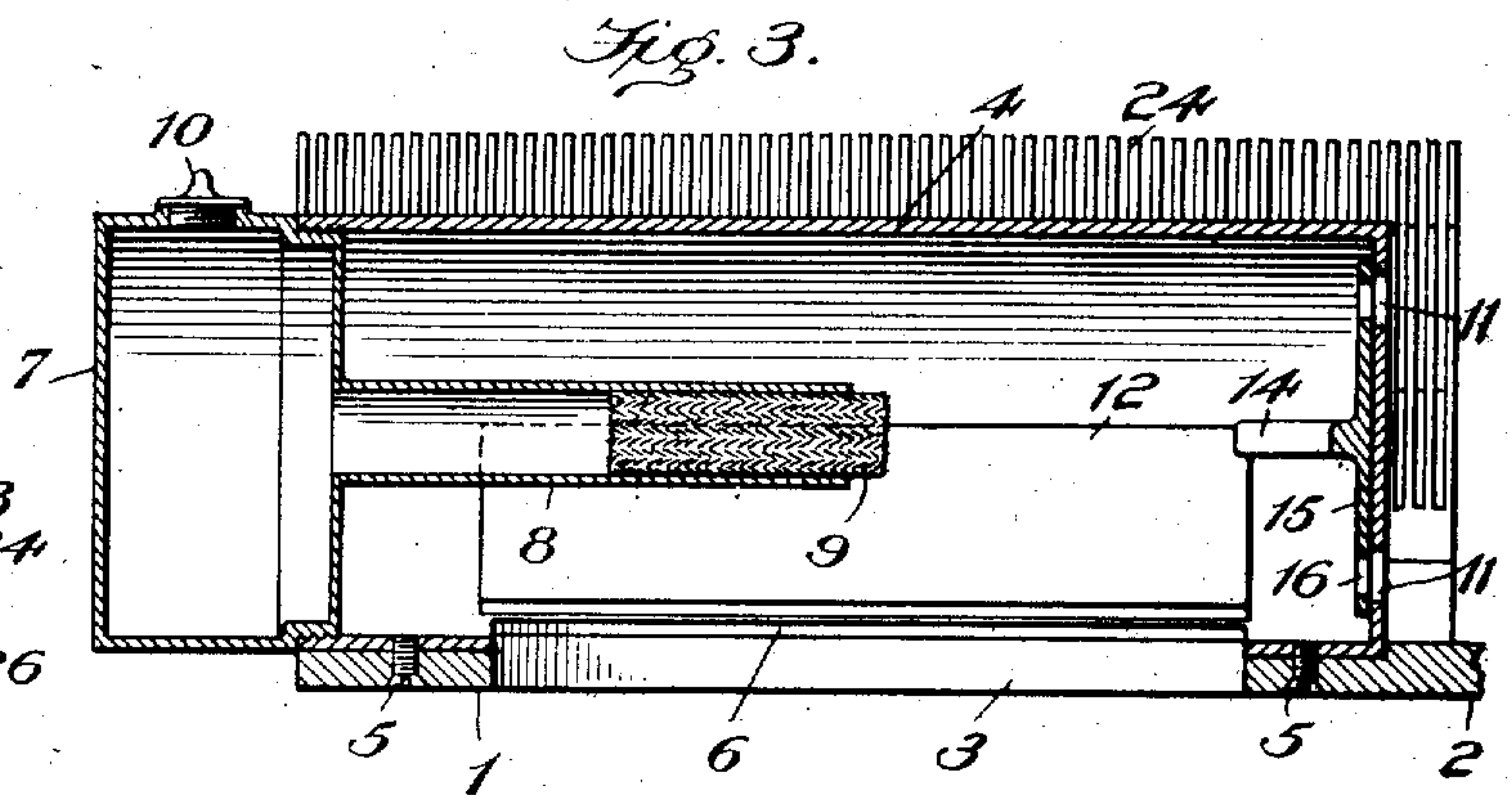
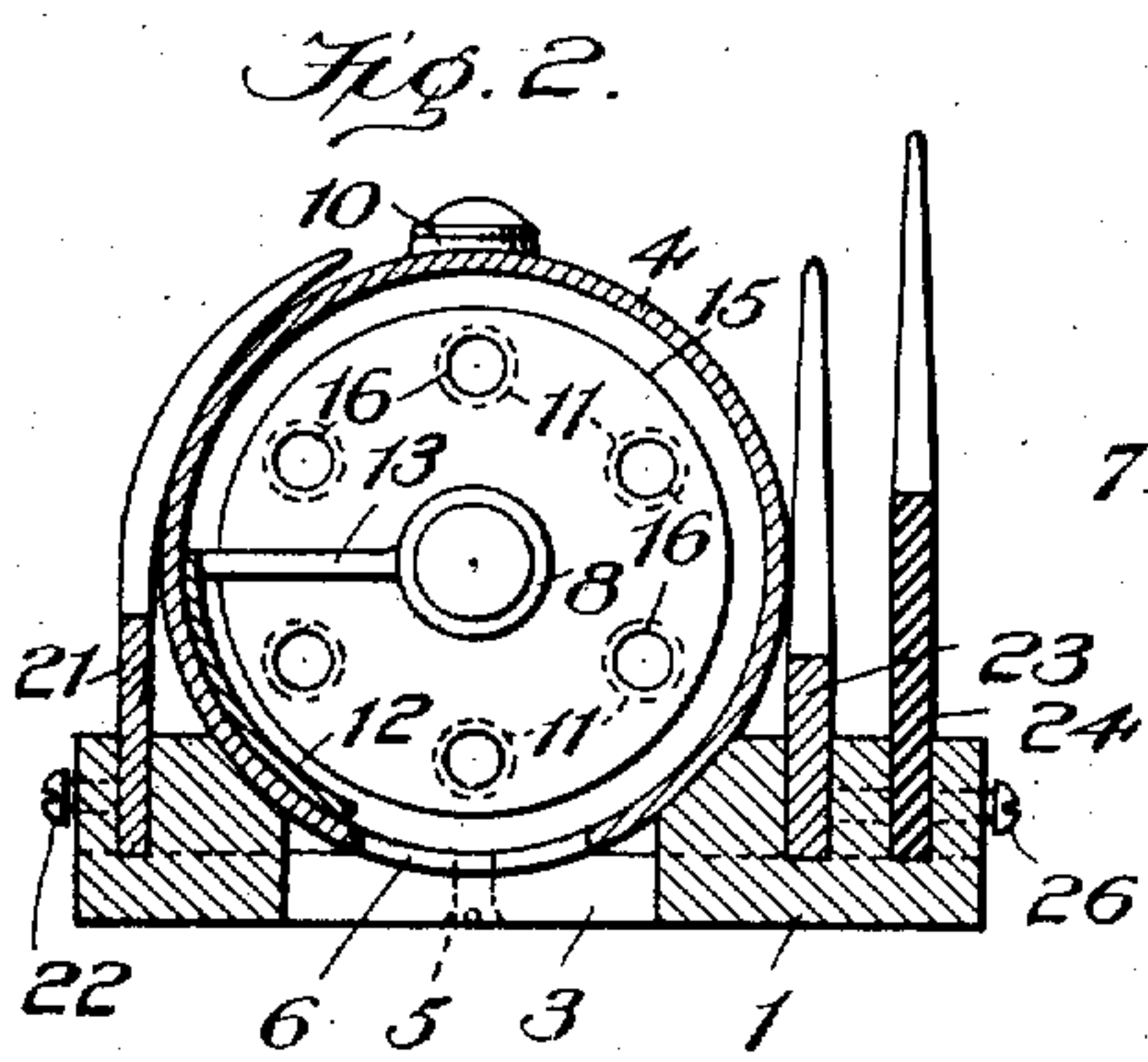
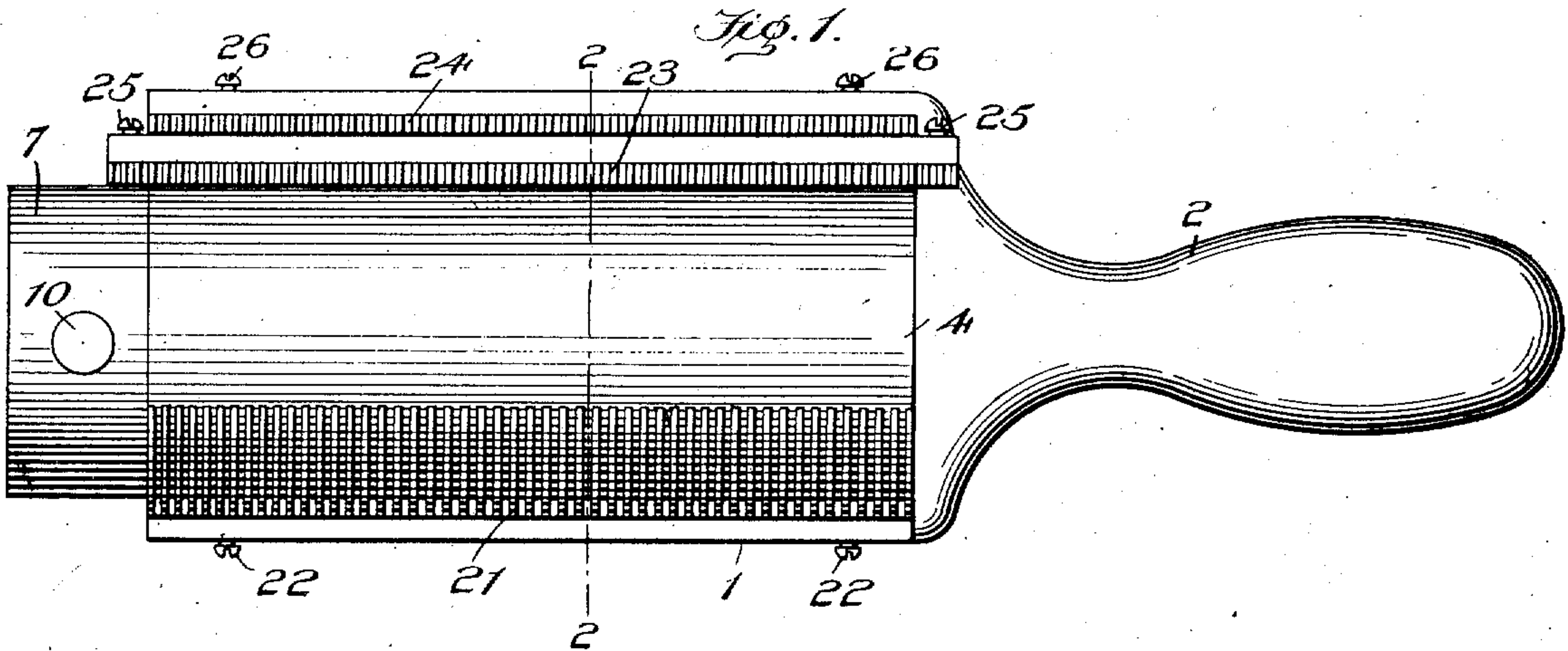


E. H. TAYLOR.  
IRONING COMB FOR STRAIGHTENING HAIR.  
APPLICATION FILED SEPT. 17, 1907.

917,680.

Patented Apr. 6, 1909.



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Witnesses

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# UNITED STATES PATENT OFFICE.

EDWARD H. TAYLOR, OF BIRMINGHAM, ALABAMA, ASSIGNOR OF FOUR-TENTHS TO HOLLIS L. ARMSTRONG, OF BIRMINGHAM, ALABAMA.

## IRONING-COMB FOR STRAIGHTENING HAIR.

No. 917,680.

Specification of Letters Patent.

Patented April 6, 1909.

Application filed September 17, 1907. Serial No. 393,388.

*To all whom it may concern:*

Be it known that I, EDWARD H. TAYLOR, a citizen of the United States, residing at Birmingham, in the county of Jefferson and State of Alabama, have invented new and useful Improvements in Ironing-Combs for Straightening Hair, of which the following is a specification.

My invention relates to means for straightening hair and has for its object to provide a simple and comparatively inexpensive device which comprises a heated cylinder or ironing surface and an adjacent comb or combs, the teeth of which act to draw the hair over the smooth heated surface of the cylinder to iron the hair until it becomes straight. The ironing surface of the cylinder may be heated in several different ways, and it will be understood that in referring to an ironing surface I mean to include any curved smooth surface.

My invention further comprises the details of construction and arrangement of parts, hereinafter more particularly described and claimed and illustrated in the accompanying drawings which form a part hereof and in which:—

Figure 1, is a plan view of my ironing comb complete. Fig. 2, is a sectional view taken along the line 2—2 of Fig. 1. Fig. 3, is a vertical longitudinal sectional view of Fig. 2. Fig. 4, illustrates a modification of my invention in which the ironing surface and comb teeth are cast integral. Fig. 5, illustrates an electrical heater which may be used in place of the alcohol heater shown in Fig. 3.

Similar reference numerals refer to similar parts throughout the drawings.

My improved device which may be referred to as an ironing comb, is mounted upon a base 1 similar to that of a brush and provided with a handle 2. The base 1 has a longitudinal opening 3 in its body portion above which is mounted the ironing cylinder 4. The sides of the opening and the ends of the base are grooved or cut away to form a seat for this cylinder which is held in position therein by screws 5. The cylinder is provided with an opening 6 in its bottom, registering with the opening 3 in the base and has its outer end open and internally threaded so as to receive the threaded end of a cylindrical alcohol reservoir 7. This reservoir has a tubular extension 8

which projects into the cylinder substantially to the center thereof and carries a wick 9. A screw cap 10 closes the opening in the reservoir through which alcohol or similar fluid is introduced therein. The reservoir may be placed at the inner end of the cylinder or at any other suitable point. To provide for the proper supply of air to the interior of the cylinder, in addition to the opening 6 in the base thereof, I provide a series of openings 11 at the inner end of the cylinder. As a means for regulating the supply of air and also preventing a too rapid radiation of heat from the cylinder after it has been brought to the proper temperature, I provide a curved slide valve or gate 12 in the cylinder and connect it to the extension 8 by an arm 13 by which it can be moved around so as to close the opening 6. The outer end of the valve 12 is connected by a stud 14 to a rotary valve plate 15 which bears against the inner end of the cylinder and is provided with openings 16 so arranged as to register with the openings 11 in the cylinder end when the valve 12 is in the position shown in Fig. 2. By giving the reservoir 7 a partial turn to the left, both valves 12 and 15 will be moved to their closed position. This alcohol heater is preferable where electric current is not available.

In Fig. 5 I illustrate an electrically heated drum 17 having terminals 18 and 19 to which the wires 20, such as supply current to an ordinary incandescent light, can be connected. This cylinder can be substituted for the cylinder 4 and connected to the base 1 by screws 5, as shown.

The base 1 is grooved on one side to receive the comb 21, the teeth of which project up well over the cylinder and have a curve substantially corresponding thereto. Set screws 22 hold this comb in position. On the other side of the cylinder I provide two grooved recesses to receive the combs 23 and 24, the teeth of the inner comb 23 being shorter and arranged tangentially to the cylinder and extended in height to about the top or a little above of the cylinder. Since the teeth of the combs 21 and 23 are disposed so close to the cylinder 4, I prefer that these should be made of metal. The teeth of the comb 24 extend above those of the comb 23, these two combs being detachably held in place respectively, by the set



screws 25 and 26. The base of the comb 24 is preferably of non-conducting material to prevent the radiation of too great a heat to the teeth thereof.

- 5 In operation, after the cylinder has been brought to the proper temperature condition for successfully ironing the hair, the device is operated so that the hair is first combed or separated by the teeth of the comb 24, 10 after which the teeth of the comb 23 engage the hair and guide it onto the upper smoothed ironing surface of the cylinder, after which the curved teeth of the comb 21 engage the 15 cylinder so that the latter acts with an ironing effect to straighten the hair. In effect the device is grasped in the hand like a brush and passed through the hair in such direction that all three combs engage the 20 hair and guide it across the interposed ironing surface. The comb should always be moved so that the comb 24, which is not heated, will first engage the hair and will be the only part that contacts with the scalp.
- 25 In Fig. 4 I illustrate a modification in which a cylinder 27 is provided sufficiently large to receive either of the heating cylinders 4 or 17. This cylinder 27 has formed integral therewith rows of teeth 28, 29 and 30 30 corresponding respectively to the teeth of the combs 21, 23 and 24 of Fig. 2. The heating cylinders are inserted in this outer casing and serve to bring it up to the temperature required for ironing the hair.
- 35 The combs 21, 23 and 24 are made removable so that a lesser number or different sizes and designs of combs may be used as occasion may require, also the combs can be arranged differently.
- 40 The ironing combs may be modified in various ways and within the scope of the appended claims and without particular limitation to the details illustrated.

What I claim as new and desire to secure 45 by Letters Patent, is:—

1. In a device for straightening hair, the combination with an ironing surface adapted to be heated, of combing means positioned adjacent to said surface and adapted to hold 50 the strands of hair against said surface as the device is moved in operation, and a handle support to which said surface and comb are rigidly connected.

2. In a device of the character described, 55 a smooth ironing member curved in cross section, a handle support to which said member is rigidly connected, and combing means

detachably connected to said support and which project above the said ironing surface and precede it as the device is moved 60 through the hair in operation.

3. In a device of the character described, a cylinder adapted to be heated, a handle supporting said cylinder, a comb detachably 65 connected to said handle and positioned along side of said cylinder, the teeth of said comb being curved so as to overhang said cylinder.

4. In a device of the character described, 70 the combination with a handle, of the following devices mounted thereon, to-wit; an ironing member curved in cross section, means to heat said member from its inner side, and combs positioned on each side of 75 said member.

5. In a device of the character described, an ironing member comprising a cylinder, means to apply heat to the interior of said cylinder, a handle upon which said cylinder 80 is mounted, and a plurality of combs on said handle adjacent to said cylinder and parallel therewith, substantially as described.

6. In a device of the character described, an ironing member having a smooth surface 85 curved in cross section, and two rows of comb teeth between which said surface is disposed, and means to heat said surface, substantially as described.

7. In a device of the character described, an ironing member having a smooth curved 90 surface, means to heat said member, a handle to which said member is connected, a plurality of combs and means to detachably connect them to said handle adjacent to said cylinder, one comb having curved teeth 95 which overhang the cylinder on one side, and two other combs arranged on the other side adjacent to and parallel with the cylinder, the outer comb having a non-conducting base and provided with teeth which project 100 above the teeth of the inner comb.

8. In a device of the character described, the combination with an ironing member adapted to be heated, of metallic combs disposed on each side of said member with their 105 teeth in contact therewith and adapted to be heated thereby, as and for the purposes described.

In testimony whereof I have hereunto set my hand in presence of two subscribing wit- 110 nesses.

EDWARD H. TAYLOR.

Witnesses:

M. D. BRANDES,  
EDWIN W. DICK.